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| **3.5 Practical tasks**  **Lab activity 1: ON/OFF delay timer** |
| Objective: understand and use ON/OFF delay timer   1. Try the following control routines, for how many seconds the green light stays ON in each case? write down your comments:  |  |  | | --- | --- | | untitled.bmp | | | **Action** | **Comments** | | Press the green PB for three seconds and then release it. |  | | Press the green PB for seven seconds and then release it. |  | | untitled2.bmp | | | **Action** | **Comments** | | Switch ON the selector switch for 10 seconds then switch it OFF |  |  1. Which input is better to be used with the ON/OFF programming block switch or pushbutton? Why? 2. The conveyor belt (Q8) is required to start 10 seconds after switching ON the selector switch (I4), and it must stay ON for 20 seconds after switching OFF the same selector switch. 3. Create and test the program for this task using one timer only.  |  | | --- | | untitled.bmp |  1. Create and test the program for this task using two timers.  |  | | --- | | untitled.bmp |  1. Compare between program (a) and program (b) in terms of the advantage for each one? |
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